## **Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings of claims in the application:

## **Listing of Claims:**

| 1 | 1 (currently amended): A method for identifying a compound that modulates T              |
|---|--|
| 2 | lymphocyte activation, the method comprising the steps of:                               |
| 3 | (i) contacting the compound with a TRAC1 polypeptide, wherein the polypeptide            |
| 4 | comprises an amino acid sequence having at least about 90% identity to an the amino acid |
| 5 | sequence of SEQ ID NO:1, wherein the TRAC1 polypeptide has ligase activity; and          |
| 6 | (ii) determining the functional effect of the compound upon the TRAC1                    |
| 7 | polypeptide activity.  |
| 1 | 2 (original): The method of claim 1, wherein the functional effect is measured in        |
| 2 | vitro.   |
|   | 3-5 (cancelled)  |
| 1 | 6 (currently amended): The method of claim 1, wherein the polypeptide is                 |
| 2 | heterologous and expressed in a host cell.   |
|   | 7-8 (cancelled)  |
| 1 | 9 (original): The method of claim 6, wherein the host cell is primary T                  |
| 2 | lymphocyte.  |
| 1 | 10 (original): The method of claim 6, wherein the host cell is a cultured T cell.        |
| 1 | 11 (original): The method of claim 10, wherein the host cell is a Jurkat cell.           |

| 1   | 12 (currently amended): The method of claim § 1, wherein the ehemical or                    |
|-----|---|
| 2   | phenotypic functional effect is determined by measuring CD69 expression, intracellular Ca2+ |
| 3   | mobilization, Ca2+ influx, ligase activity, or lymphocyte proliferation.                    |
| 1   | 12 ( ' ' ' ') TI  |
| 1   | 13 (original): The method of claim 1, wherein modulation is inhibition of T                 |
| 2   | lymphocyte activation.  |
| 1   | 14 (original): The method of claim 1, wherein the polypeptide is recombinant.               |
| 1   | 15 (original): The method of claim 1, wherein the TRAC1 polypeptide                         |
| 2   | comprises an amino acid sequence of SEQ ID NO:1   |
|     |   |
| 1   | 16 (original): The method of claim 1, wherein the TRAC1 polypeptide is                      |
| 2   | encoded by a nucleic acid comprising a nucleotide sequence of SEQ ID NO:2.                  |
| 1   | 17 (withdrawn): The method of claim 1, wherein the compound is an antibody.                 |
| 1   | 18 (withdrawn): The method of claim 1, wherein the compound is an antisense                 |
| 2   | molecule.   |
|     |   |
| 1   | 19 (withdrawn): The method of claim 1, wherein the compound is a small                      |
| 2   | organic molecule.   |
| 1   | 20 (withdrawn): The method of claim 1, wherein the compound is a peptide.                   |
| 1   | 21 (withdrawn): The method of claim 20, wherein the peptide is circular.                    |
| 1   | 22 (withdrawn): A method for identifying a compound that modulates T                        |
| 2   | lymphocyte activation, the method comprising the steps of:                                  |
| 3   | (i) contacting a T cell comprising a TRAC1 polypeptide or fragment thereof with             |
| 4 , | the compound, the TRAC1 polypeptide or fragment thereof encoded by a nucleic acid that      |

5 hybridizes under stringent conditions to an antisense nucleic acid corresponding to a nucleic acid 6 encoding a polypeptide having an amino acid sequence of SEQ ID NO:1; and 7 (ii) determining the chemical or phenotypic effect of the compound upon the cell 8 comprising the TRAC1 polypeptide or fragment thereof, thereby identifying a compound that 9 modulates T lymphocyte activation. 1 23 (withdrawn): A method for identifying a compound that modulates T 2 lymphocyte activation, the method comprising the steps of: 3 (i) contacting the compound with a TRAC1 polypeptide or a fragment thereof, the 4 TRAC1 polypeptide or fragment thereof encoded by a nucleic acid that hybridizes under 5 stringent conditions to an antisense nucleic acid corresponding to a nucleic acid encoding a 6 polypeptide having an amino acid sequence of SEQ ID NO:1; 7 (ii) determining the physical effect of the compound upon the TRAC1 8 polypeptide; and 9 (iii) determining the chemical or phenotypic effect of the compound upon a cell 10 comprising the TRAC1 polypeptide or fragment thereof, thereby identifying a compound that 11 modulates T lymphocyte activation. 1 24 (withdrawn): A method for identifying a compound capable of interfering 2 with binding of an TRAC1 polypeptide or fragment thereof, the method comprising the steps of: 3 (i) combining an TRAC1 polypeptide or fragment thereof with an E2 ubiquitin-4 conjugating enzyme polypeptide and the compound, wherein the TRAC1 polypeptide or 5 fragment thereof is encoded by a nucleic acid that hybridizes under stringent conditions to a 6 nucleic acid encoding a polypeptide having an amino acid sequence of SEQ ID NO:1; and 7 (ii) determining the binding of the TRAC1 polypeptide or fragment thereof to the 8 E2 ubiquitin-conjugating enzyme polypeptide. 1 25 (withdrawn): The method of claim 24, wherein the TRAC1 polypeptide or 2 fragment thereof has ligase activity.

| I | 26 (withdrawn): The method of claim 24, wherein the E2 ubiquitin-conjugating                  |
|---|---|
| 2 | enzyme polypeptide is selected from the group consisting of Ubc5, Ubc7, and Ubc8.             |
| 1 | 27 (withdrawn): The method of claim 24, wherein the TRAC1 polypeptide or                      |
| 2 | fragment thereof and the E2 ubiquitin-conjugating enzyme polypeptide are combined first.      |
| 1 | 28 (withdrawn): The method of claim 24, wherein the reaction is performed in                  |
| 2 | vitro.  |
| 1 | 29 (withdrawn): The method of claim 24, wherein the TRAC1 polypeptide or                      |
| 2 | fragment thereof and the E2 ubiquitin-conjugating enzyme polypeptide are expressed in a cell. |
| 1 | 30 (withdrawn): The method of claim 29, wherein the cell is a yeast cell.                     |
| 1 | 31 (withdrawn): The method of claim 30, wherein the TRAC1 polypeptide or                      |
| 2 | fragment thereof is fused to a heterologous polypeptide.                                      |
| 1 | 32 (withdrawn): The method of claim 24, wherein the binding of the TRAC1                      |
| 2 | polypeptide or fragment thereof to the E2 ubiquitin-conjugating enzyme polypeptide is         |
| 3 | determined by measuring reporter gene expression.   |
| 1 | 33 (withdrawn): An isolated complex comprising a TRAC1 polypeptide or                         |
| 2 | fragment thereof bound to an E2 ubiquitin-conjugating enzyme polypeptide, wherein the TRAC1   |
| 3 | polypeptide or fragment thereof is encoded by a nucleic acid that hybridizes under stringent  |
| 4 | conditions to a nucleic acid encoding a polypeptide having an amino acid sequence of SEQ ID   |
| 5 | NO:1.   |
| 1 | 34 (withdrawn): The complex of claim 33, wherein the E2 ubiquitin-conjugating                 |
| 2 | enzyme polypeptide is selected from the group consisting of Ubc5, Ubc7, and Ubc8.             |
|   |   |

| 1 | 35 (withdrawn): A method of modulating T lymphocyte activation in a subject,                      |
|---|---|
| 2 | the method comprising the step of administering to the subject a therapeutically effective amount |
| 3 | of a compound identified using the method of claim 1.   |
| 1 | 36 (withdrawn): The method of claim 35, wherein the subject is a human.                           |
| 1 | 37 (withdrawn): The method of claim 35, wherein the compound is an antibody.                      |
| 1 | 38 (withdrawn): The method of claim 35, wherein the compound is an antisense                      |
| 2 | molecule.   |
| 1 | 39 (withdrawn): The method of claim 35, wherein the compound is a small                           |
| 2 | organic molecule.   |
| 1 | 40 (withdrawn): The method of claim 35, wherein the compound is a peptide.                        |
| 1 | 41 (withdrawn): The method of claim 40, wherein the peptide is circular.                          |
| 1 | 42 (withdrawn): The method of claim 35, wherein the compound inhibits T                           |
| 2 | lymphocyte activation.  |
| 1 | 43 (withdrawn): A method of modulating T lymphocyte activation in a subject,                      |
| 2 | the method comprising the step of administering to the subject a therapeutically effective amount |
| 3 | of a TRAC1 polypeptide, the polypeptide encoded by a nucleic acid that hybridizes under           |
| 4 | stringent conditions to a nucleic acid encoding a polypeptide having an amino acid sequence of    |
| 5 | SEQ ID NO:1.  |
| 1 | 44 (withdrawn): The method of claim 43, wherein the TRAC1 polypeptide                             |
| 2 | comprises an amino acid sequence of SEQ ID NO:1.  |
|   |   |

1 45 (withdrawn): A method of modulating T lymphocyte activation in a subject, 2 the method comprising the step of administering to the subject a therapeutically effective amount 3 of a nucleic acid encoding a TRAC1 polypeptide, wherein the nucleic acid hybridizes under 4 stringent conditions to a nucleic acid encoding a polypeptide having an amino acid sequence of 5 SEQ ID NO:1. 1 46 (withdrawn): The method of claim 45, wherein the TRAC1 nucleic acid comprises a nucleotide sequence of SEQ ID NO:2. 2 1 47 (new): The method of claim 1, wherein the TRAC1 polypeptide comprises an amino acid sequence having at least about 95% identity to an amino acid sequence of SEQ ID 2 3 NO:1.